

REMARKS

The Office rejects claims 1-16 in the subject application. Upon entry of the foregoing amendments, claims 1, 7, 11, 14, and 16 are amended. Claims 1-16 (5 independent claims; 16 total claims) remain pending in the application. Support for the various amendments may be found in the originally filed specification, claims, and figures. No new matter has been introduced by these amendments. Reconsideration of this application is respectfully requested.

Rejections Under 35 U.S.C. §102

Claims 7-13 and 16 stand rejected under 35 U.S.C. §102(e) as being anticipated by Buer, US 2002/0132580 A1 ("Buer"). Applicants respectfully traverse the rejection.

Buer generally teaches an "uplink power control system and method" including "a current sensing technique for predicting the P1 dB power compression point." (See Abstract). Buer discloses a method for processing and storing DC measurements and for using these measurements to determine the P1 dB power compression point. (See Buer paragraphs 35-47, and Figures 4 and 5). The method is based off of current sensing. However, Buer does not disclose current sensing in the outdoor unit (ODU). In fact, Buer teaches sensing current at the indoor unit (IDU). (See Buer paragraphs 34 and 35, and Figure 3). Moreover, Buer teaches away from sensing current in the outdoor unit, i.e., the transmitter unit. (See Buer paragraphs 31, 32, 43, and 44).

Also, Buer does not teach sensing current after a regulator located in the ODU/transmitter unit. Furthermore, Buer teaches away from forward power detection and related telemetry. (See Buer paragraphs 28, 29, 31, and 32, and Figure 3). "[T]he forward power telemetry and complex interface circuitry that is generally required in the ODU of the prior art is not needed in the ODU of the present invention." Buer, paragraph 32.

In contrast, Applicants' claimed invention, as recited in amended claim 7, includes the additional embodiment of sensing current in the transmitter unit. Applicants' amended independent claim 7 recites, in part, "a current monitor, in the transmitter unit, for monitoring a

level of a direct current provided by a DC current regulator to the power amplifier of the transmitter unit". (emphasis added).

Thus, Applicants submit that each and every element of amended independent claim 7 is not disclosed, taught or suggested by Buer. Accordingly claim 7 (and claims 8-10 which variously depend from claim 7) is not anticipated by Buer and Applicants respectfully request the withdrawal of the rejection of claims 7-10 under 35 U.S.C. §102.

Similarly, Applicants' claimed invention, as recited in amended claim 11, recites, in part, "means for monitoring, in the transmitter unit, an amount of current into the power amplifier of the transmitter unit". (emphasis added). Thus, for similar reasons, Applicants submit that each and every element of amended independent claim 11 is not disclosed, taught or suggested by Buer. Accordingly, claim 11 (and claims 12-13 which depend from claim 11) is not anticipated by Buer and Applicants respectfully request the withdrawal of the rejection of claims 11-13 under 35 U.S.C. §102.

Similarly, Applicants' claimed invention, as recited in amended claim 16, recites, in part, "monitoring, within the transmitter unit, a direct current into the power amplifier to determine when the direct current exhibits a predetermined characteristic". (emphasis added). Thus, for similar reasons, Applicants submit that each and every element of amended independent claim 16 is not disclosed, taught or suggested by Buer. Accordingly, claim 16 is not anticipated by Buer and Applicants respectfully request the withdrawal of the rejection of claim 16 under 35 U.S.C. §102.

Rejections Under 35 U.S.C. §103

Claims 1-6 stand rejected under 35 U.S.C. §103 as being unpatentable over Buer in view of Matsumoto et al, US 2003/0102924 A1 ("Matsumoto"). Applicants respectfully traverse the rejection.

Matsumoto discloses "a power amplifier module designed for a cellular telephone system requiring a high efficiency and high linearity." (See Abstract of Matsumoto). Matsumoto, as

best understood, however, does not disclose monitoring a direct current component of an input signal applied to the power amplifier of the transmitter unit to determine when the direct current component of the input signal applied to the power amplifier exhibits a predetermined characteristic. Furthermore, Matsumoto does not disclose such monitoring at the transmitter unit.

In contrast to Buer and Matsumoto, independent amended claim 1 recites, “monitoring, at the transmitter unit, a direct current component of an input signal applied to the power amplifier of the transmitter unit to determine when the direct current component of the input signal applied to the power amplifier exhibits a predetermined characteristic” (emphasis added). Thus, Matsumoto does not disclose each of the missing elements in Buer.

For the above reasons, Applicants submit that each and every element of amended independent claim 1 is not disclosed, taught or suggested by Buer in view of Matsumoto. Accordingly claim 1 (and claims 2-6 which depend from claim 1) is allowable and Applicants respectfully request the withdrawal of the rejection of claims 1-6 under 35 U.S.C. §103.

Claims 14-15 stand rejected under 35 U.S.C. §103 as being unpatentable over Buer in view of Boesch et al, U.S. Patent No. 6,298,244 B1 (“Boesch”). Applicants respectfully traverse the rejection.

Boesch discloses a power amplifier circuit having a driver amplifier stage and a final amplifier stage that are interconnected by a switching network. Boesch, as best understood, however, does not disclose a current monitor, provided within the transmitter unit, for monitoring a characteristic of the DC current provided by a regulator to the final stage of the power amplifier circuit. Moreover, Boesch does not disclose a comparator circuit coupled to the above described current monitor, nor associated telemetry circuitry in the transmitter unit.

In contrast to Buer and Boesch, amended claim 14 recites, “a current monitor, provided within the transmitter unit, for monitoring a characteristic of the DC current provided by a regulator to the final stage of the power amplifier circuit; a comparator circuit coupled to the current monitor; and a telemetry circuit coupled to the comparator and a power regulator circuit

associated with the transmitter unit" (emphasis added). Thus, Boesch does not disclose each of the missing elements in Buer.

For the above reasons, Applicants submit that each and every element of amended independent claim 14 is not disclosed, taught or suggested by Buer in view of Boesch. Thus, claim 14 (and claim 15 which depends from claim 14) is allowable and Applicants respectfully request the withdrawal of the rejection of claims 14-15 under 35 U.S.C. §103.

Conclusion

Applicants thus, respectfully assert that the claims, as currently amended, are allowable. Therefore, Applicants request that the claims be allowed and the application passed on to issuance. The Examiner is invited to telephone the undersigned at (602) 382-6367 at the Examiner's convenience, if that would help further prosecution of the subject Application. Applicants authorize and respectfully request that any fees due be charged to Deposit Account No. 19-2814. **This statement does NOT authorize charge of the issue fee.**

Respectfully submitted,

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